

Machine Id SUL Component Starboard Reduction Gear Fluid CHEVRON DELO 400 SYNTHETIC 5W40 (--- GAL)

RECOMMENDATION Test UOM Method Limit/Abn Current History1	History2
No corrective action is recommended at this time. Resample at the Sample Number Client Info MW0060673 MW00318	1 MWM636809
next service interval to monitor. Sample Date Client Info 27 Jun 2024 05 Jun 20.	3 30 Mar 2021
Machine Age hrs Client Info 0 0	3358
Oil Age hrs Client Info 0 0	921
Filter Age hrs Client Info 0 0	0
Oil Changed Client Info N/A N/A	Changed
Filter Changed Client Info N/A N/A	Changed
Sample Status ABNORMAL ABNORMA	L SEVERE
WEAR Iron ppm ASTM D5185m >150 108 142	<u>▲</u> 192
	<1
The copper level is abhormal. All other component wear rates are	<1
normal. Nickel ppm ASIM D5185m >10 0 0 0 Titanium ppm ASIM D5185m 1 2	<1
	2
Silver ppm ASTM D5185m 0 0 Aluminum ppm ASTM D5185m >25 2 2	2
	3
Lead ppm ASIM D5185m >100 O <1	▲ 458
Tin ppm ASTM D5185m >10 <1	3
VanadiumppmASTM D5185m00	<1
White Metal scalar *Visual NONE NONE	
Yellow Metal scalar Visual NONE NONE	
	NONE
CONTAMINATION Silicon ppm ASTM D5185m >50 5 10	8
There is no indication of any contamination in the oil. Potassium ppm ASTM D5185m >20 5 15	0
Water WC Method >0.1 NEG NEG	NEG
Silt scalar *Visual NONE NONE	
Debris scalar *Visual NONE NONE	
Sand/Dirt scalar *Visual NONE NONE	
Appearance scalar *Visual NORML NORML NORM	
Odor scalar *Visual NORML NORML NORM	
Emulsified Water scalar *Visual >0.1 NEG NEG	NEG
FLUID CONDITION Sodium ppm ASTM D5185m 2 15	0
Boron ACTU DE105m 200 240	586
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.DoronppnASIM Dision339340BariumppmASIM Dision00	<1
Molybdenum ppm ASTM D5185m 111 96	105
Manganese ppm ASTM D5185m <1 2	2
MagnesiumppmASTM D5185m627623	523
Calcium ppm ASTM D5185m 1460 1714	1648
Phosphorus ppm ASTM D5185m 1150 731 803	984
Zinc ppm ASTM D5185m 1270 839 899	1125

Sulfur

Visc @ 40°C

ASTM D445 88.5 68.2 66.6 75.7 Contact/Location: Dale Grimshaw - AMECAS

3949

1.04

2537

0.854

ASTM D5185m 2900

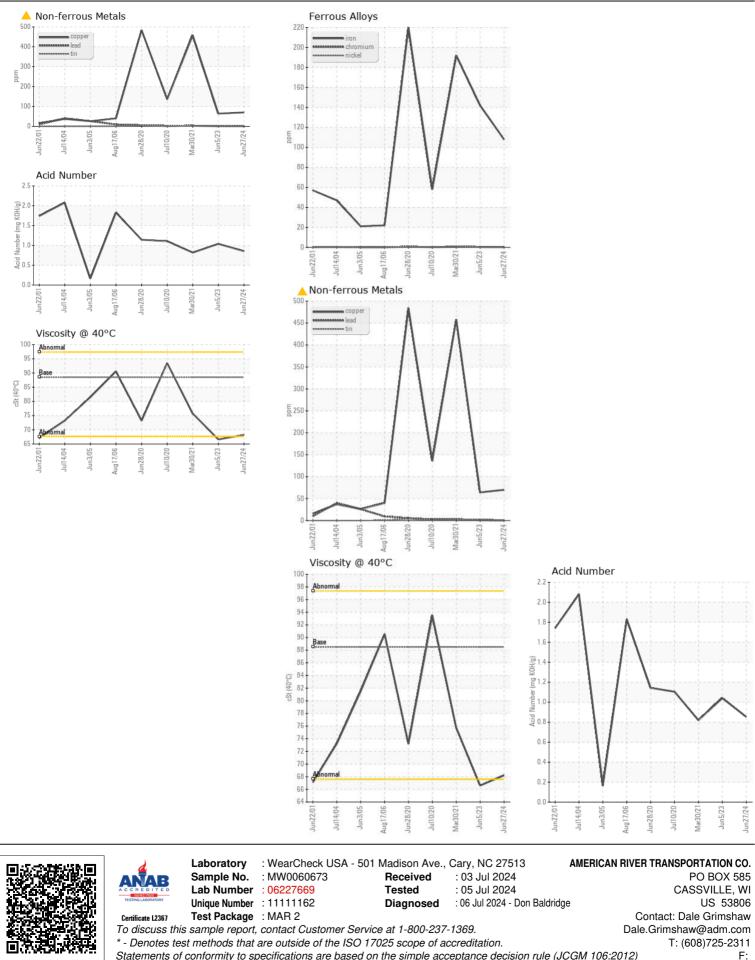
ppm

Acid Number (AN) mg KOH/g ASTM D8045

cSt

2746

0.819



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Dale Grimshaw - AMECAS Page 2 of 2